(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property **Organization**

International Bureau





(43) International Publication Date 11 November 2004 (11.11.2004)

PCT

(10) International Publication Number WO 2004/096048 A1

- (51) International Patent Classification7: A61B 6/00, 6/03
- (21) International Application Number:

PCT/US2003/009418

- (22) International Filing Date: 27 March 2003 (27.03.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

- (71) Applicant (for all designated States except US): WRIGHT STATE UNIVERSITY [US/US]; 3640 Colonel Glenn Highway, Dayton, OH 45435 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): HANGARTNER, Thomas, Niklaus [US/US]; 1900 Kresswood Circle, Dayton, OH 45429 (US). SKIPPER, Julie, Ann [US/US]: 6418 Cheri Lynne Drive, Dayton, OH 45415 (US).
- (74) Agents: JIVIDEN, William, A. et al.; Killworth, Gottman, Hagan & Schaeff, L.L.P., Suite 500, One Dayton Centre, One South Main Street, Dayton, OH 45402-2023 (US).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM). European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

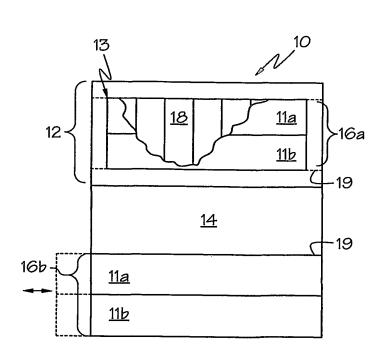
of inventorship (Rule 4.17(iv)) for US only

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: OSTEOPOROSIS SCREENING USING RADIOGRAPHIC ABSORPTIOMETRY OF THE MANDIBLE



(57) Abstract: A dental radiographic absorptiometric device and method is provided that quantitatively measures the amount of bone of a patient in any dentist's office. Absorptiometric information simultaneously obtained from the mandible and calibration devices are used to screen patients for osteoporosis.

